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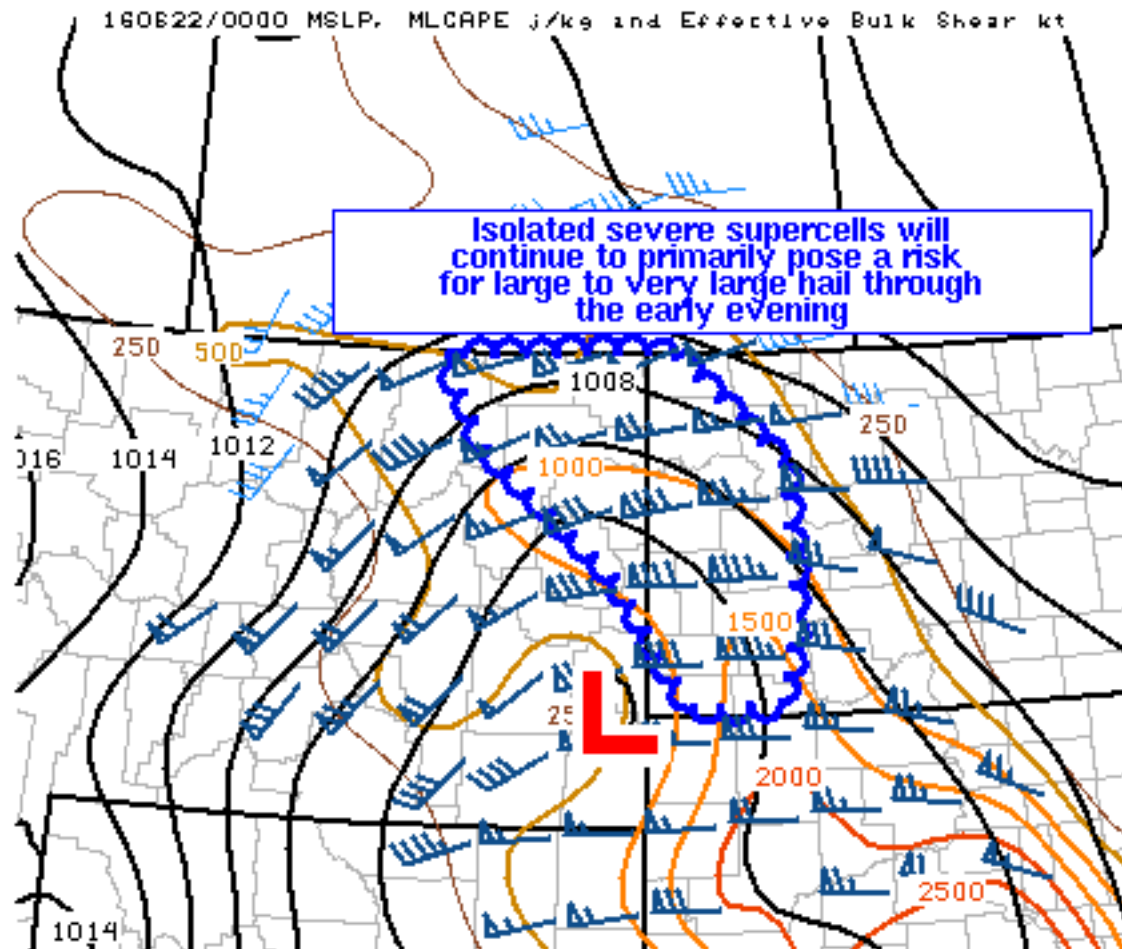
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SPC MCD #1010

MESOSCALE DISCUSSION 1010

NWS STORM PREDICTION CENTER NORMAN OK

0735 PM CDT TUE JUN 21 2016

AREAS AFFECTED...NERN MT / WRN ND

CONCERNING...SEVERE THUNDERSTORM WATCH 280...

VALID 220035Z - 220130Z

THE SEVERE WEATHER THREAT FOR SEVERE THUNDERSTORM WATCH 280 CONTINUES.

SUMMARY...ISOLATED SEVERE SUPERCELLS WILL CONTINUE TO PRIMARILY POSE A RISK FOR LARGE TO VERY LARGE HAIL THROUGH THE EARLY EVENING.

DISCUSSION...00Z SURFACE ANALYSIS PLACES A LOW NEAR THE DAKOTAS/MT BORDER WITH A FRONTAL ZONE EXTENDING SE TO NW ACROSS WRN ND INTO NERN MT. RICHER LOW-LEVEL MOISTURE INVOF THE FRONT IS EVIDENT WITHIN A NARROW CORRIDOR OF UPPER 50S TO LOWER 60S SURFACE DEWPOINTS.

THE 00Z GGW RAOB EXHIBITED AN IMPRESSIVE WIND PROFILE WITH ELY LOW LEVEL FLOW SURMOUNTED BY STRENGTHENING/VEERING FLOW IN THE MID TO HIGH LEVELS--YIELDING 90-KT EFFECTIVE SHEAR. THE STRENGTH OF THE FLOW AHEAD OF THE APPROACHING SHORTWAVE TROUGH WILL STRONGLY FAVOR DISCRETE STORMS INITIALLY VIA STRONG ANVIL-LEVEL FLOW AND THE DISPERSING OF HYDROMETEORS DOWNSTREAM. AS THE BOUNDARY LAYER COOLS REDUCING SURFACE TEMP/DEWPOINT SPREADS...THE POTENTIAL FOR LOWER-LEVEL MESOCYCLONE DEVELOPMENT WILL PROBABLY INCREASE FOR THE STRONGEST STORMS. AS THIS OCCURS...A LOW RISK FOR A TORNADO MAY DEVELOP BUT THE POTENTIAL FOR LARGE TO VERY LARGE HAIL WILL PROBABLY BE THE MAIN THREAT --ALONG WITH ISOLATED SEVERE GUSTS-- AS STORMS MOVE INTO THE MOIST AXIS OVER THE NEXT FEW HOURS.

..SMITH.. 06/22/2016

ATTN...WFO...BIS...GGW...

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NOAA / National Weather Service
National Centers for Environmental Prediction
Storm Prediction Center
120 David L. Boren Blvd.
Norman, OK 73072 U.S.A.
spc.feedback@noaa.gov
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